

# MIGHTY - SCAN

*250 ELC*

## Instruction Manual

From Version 1.3



**GERMAN LIGHT  
PRODUCTS**

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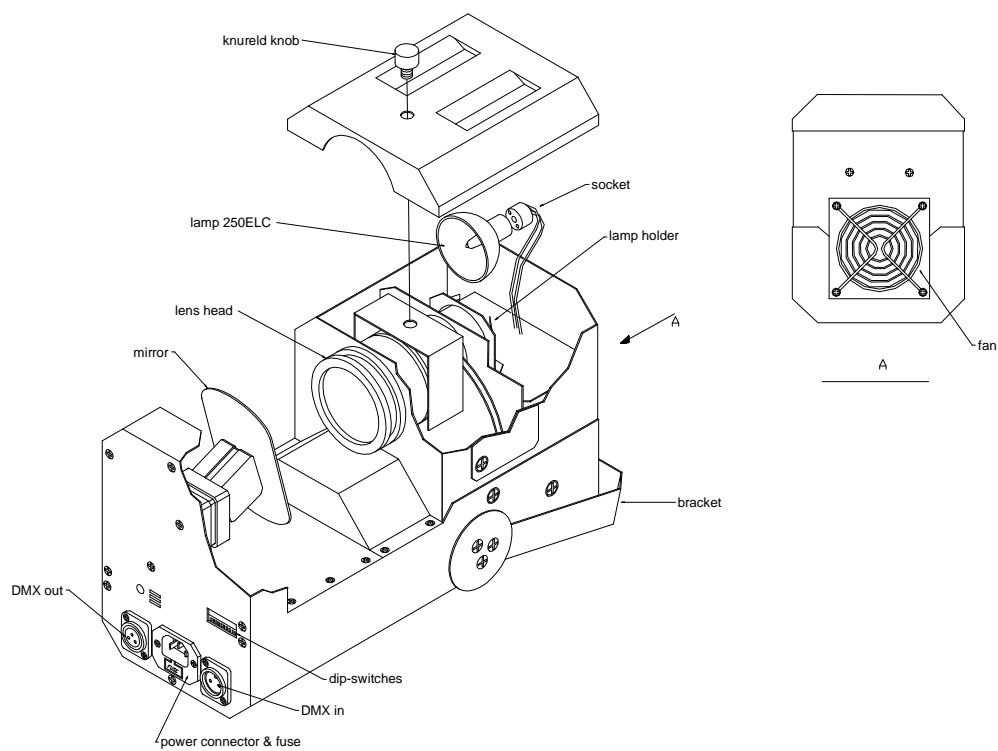
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## 1 Introduction



**Illustration 1-1**

### 1.1 Safety rules

The **Mighty-Scan** is a High-Tech Product. To guarantee a smooth operation, it is necessary to keep following rules.

1. Make sure that the mirror of the **Mighty-Scan**, can move without any mechanical problems and that all fan openings are clean and not blocked by anything.
2. Touching the mirror while moving can cause serious injuries
3. **Unplug the Mighty-Scan from the AC outlet before any service**
4. It is necessary to wait at least 30 minutes after disconnecting the AC before you open the **Mighty-Scan**. Please do not touch the Bulb if you are not absolutely sure it is cold. **-Danger of BURNING-**
5. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **Mighty-Scan** without suited safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
6. The installation should be done by qualified staff only. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.

## 2 Installation

### 2.1 Mounting

Mount clamps and/or hooks directly to the bow of the **Mighty-Scan**.

Please make sure to use right sized clamps and hooks and fit them securely.

The **Mighty-Scan** is fully operational whether it hangs or is mounted to the wall.

### 2.2 Secure the Mighty-Scan

Use always safety wires to secure the **MIGHTY-SCAN**, connect them with the eyelet (see Drawing 1-1 Chapter 1 ) and check the tight fit!

### 2.3 Connectors

#### 2.3.1 AC Connector

230/120 Volt, 50/60 Hz

Please see printing on the case for the right Powersupply !

#### 2.3.2 DMX

DMX 512 Standard input/output

Please see printing on the case for the right Pin usage!

### 2.4 Fuses

















The **Mighty-Scan** electronic system is protected by 5x20 T3.15A fuse 250V, or 5x20 6.3AT fuse 120V. Please see the printing on the **Mighty-Scan** for more details look at the Drawing 1-1 at Chapter 1.

**Disconnect AC outlet before changing a fuse !!!**

### 3 Selecting Address/Basic Functions

Adjust DMX-Address and basic functions **before** connecting the **MIGHTY-SCAN** to AC Power.

#### 3.1 Adjust the DMX-Address

Address			
ON		Mighty Scan 1	DMX Channel 0
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 2	DMX Channel 6
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 3	DMX Channel 12
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 4	DMX Channel 18
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 5	DMX Channel 24
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 6	DMX Channel 30
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 7	DMX Channel 36
OFF			
	1 2 3 4 5 6 7 8 9 10		
ON		Mighty Scan 8	DMX Channel 42
OFF			
	1 2 3 4 5 6 7 8 9 10		

## 3.2 Special Functions

### 3.2.1 Sound Function

Sound controlled run of factory stored programs is possible by switching the DMX Address at first **Mighty-Scan** as seen in the picture below. Set the Dip switches of any other connected **MIGHTY-SCAN** to OFF.



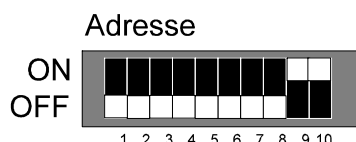
### 3.2.2 Standalone Function

Automatically Runs a factory stored program. If you want to use this setting while connecting more than one **MIGHTY-SCAN** in a line, set the Dip switches of all others connected units to OFF.



### 3.2.3 Reset

All functions will Reset and move to zero position.



### 3.2.4 Switch off Lamp

If the channels 3 (Speed Arm), 4 (Speed Head) and 8 (Shutter) on DMX zero at the same time, the lamp of the **MIGHTY-SCAN** will switch off immediately. Any change of channel 8 (Shutter) will start the lamp again.

If there is no signal or channel 8 (Shutter) for more then 2 min. on DMX zero, the lamp will switch off automatically. Any signal of channel 8 (Shutter) will start the lamp again.



#### 4 Channel selection ( Overview table )

Channel	Description	DMX-Value	Hex-Value	Value in %
1) Pan	Pan- Position	0 - 255	0 - FF	0 – 100%
2) Tilt	Tilt- Position	0 - 255	0 - FF	0 – 100%
3) Speed	Pan/Tilt- Speed	0 - 255	0 - FF	0 – 100%
4) Color	Color correction filter 5600K	0 - 3	0 - 3	1%
	Halfcolor 1	4 - 7	4 - 7	2%
	blue 107	8 - 11	8 - B	3%
	Halfcolor 2	12 - 15	C - F	5%
	blue110	16 - 19	10 - 13	7%
	Halfcolor 3	20 - 23	14 - 17	8%
	blue101	24 - 27	18 - 1B	10%
	Halfcolor 4	28 - 31	1C - 1F	11%
	cyan 401	32 - 35	20 - 23	13%
	Halfcolor 5	36 - 39	24 - 27	15%
	green 201	40 - 43	28 - 2B	16%
	Halfcolor 6	44 - 47	2C - 2F	18%
	green 204	48 - 51	30 - 33	19%
	Halfcolor 7	52 - 55	34 - 37	21%
	yellow 601	56 - 59	38 - 3B	22%
	Halfcolor 8	60 - 63	3C - 3F	24%
	orange 306	64 - 67	40 - 43	25%
	Halfcolor 9	68 - 71	44 - 47	27%
	red 304	72 - 75	48 - 4B	29%
	Halfcolor 10	76 - 79	4C - 4F	30%
	pink 303	80 - 83	50 - 53	32%
	Halfcolor 11	84 - 87	54 - 57	33%
	magenta 501	88 - 91	58 - 5B	35%
	Halfcolor 12	92 - 95	5C - 5F	36%
	magenta 507	96 - 99	60 - 63	38%
	Halfcolor 13	100 - 103	64 - 67	40%
	cyan 104	104 - 107	68 - 6B	41%
	Halfcolor 14	108 - 111	6C - 6F	43%
	orange 302	112 - 115	70 - 73	44%
	Halfcolor 15	116 - 119	74 - 77	46%
	türkis 208	120 - 123	78 - 7B	47%
	Halfcolor 16	124 - 127	7C - 7F	49%
	pink 310	128 - 131	80 - 83	50%
	Halfcolor 17	132 - 135	84 - 87	52%
	yellow 603	136 - 139	88 - 8B	54%
	Halfcolor 18	140 - 143	8C - 8F	55%
	UV blue 108	144 - 147	90 - 93	57%
	Halfcolor 19	148 - 151	94 - 97	58%

Channel	Description	DMX-Value	Hex-Value	Value in %
	red 301	152 - 155	98 - 9B	60%
	Halfcolor 20	156 - 159	9C - 9F	61%
	open (no filter)	160 - 175	A0 - AF	62 - 68%
	Rotation 1 fast – slow	176 - 208	B0 - D0	69 – 81%
	Rotation stop	209 - 221	D1 - DF	82 – 86%
	Rotation 2 slow - fast	222 - 255	E0 - FF	87 – 100%
<b>5) Gobos</b>	Gobo 1	0 - 7	0 - 7	2%
	Gobo 2	8 - 15	8 - F	5%
	Gobo 3	16 - 23	10 - 17	8%
	Gobo 4	24 - 31	18 - 1F	11%
	Gobo 5	32 - 39	20 - 27	15%
	Gobo 6	40 - 47	28 - 2F	18%
	Gobo 7	48 - 55	30 - 37	21%
	Gobo 8	56 - 63	38 - 3F	24%
	Gobo 9	64 - 71	40 - 47	27%
	Gobo 10	72 - 79	48 - 4F	30%
	Gobo 11	80 - 87	50 - 57	33%
	Gobo 12	88 - 95	58 - 5F	36%
	Gobo 13	96 - 103	60 - 67	40%
	Gobo 14	104 - 111	68 - 6F	43%
	Gobo 15	112 - 119	70 - 77	46%
	Gobo 16	120 - 127	78 - 7F	49%
	Gobo 17	128 - 135	80 - 87	52%
	Gobo 18	136 - 143	88 - 8F	5%
	Gobo 19	144 - 151	90 - 97	58%
	Gobo 20	152 - 159	98 - 9F	61%
	Gobo 21	160 - 175	A0 - A7	68%
	Rotation fast – slow	176 - 208	B0 - D0	69 – 81%
	Rotation stop	209 - 254	D1 - FE	82 – 99%
	Reset	255	FF	100%
<b>6) Shutter</b>	Shutter close 1	0 - 7	0 - 7	2%
	Shutter open	8 - 15	8 - F	5%
	Shutter close 2	16 - 23	10 - 17	8%
	Shutterfrequency, fast – slow	24 - 127	18 - 7F	9 – 50%
	Shutter open, color/gobo speed slow - fast	128 - 255	80 - FF	51 – 100%
<b>Lampe off</b>	after 2 min. if: Shutter close 1 <b>or</b> Shutter close 2	0 – 7 <b>oder</b> 16 – 23	0 – 7 <b>oder</b> 10 – 17	2% <b>oder</b> 8%
<b>Lampe off</b>	If Shutter close 1 <b>and</b> Speed Pan/Tilt= 0	Shutter 0 – 7 <b>and</b> Speed =0	Shutter 0 - 7 <b>and</b> Speed =0	Shutter 2% <b>and</b> Speed =0%
<b>Lampe on</b>	If Shutter open	Shutter ≠0	Shutter ≠0	Shutter ≠0%

## 5 Change the Lamp

For a hassle free change of the Light bulb, it is absolutely necessary to follow all descriptions in this chapter step by step.

### 5.1 Safety rules

- Unplug AC power connection
- Allow to cool (over 30 minutes)
- Don't touch lamp with bare fingers.
- Close the **Mighty-Scan** before you connect the AC power!

### 5.2 How to change the lamp

Please look at Drawing 1-1

1. Unscrew Phillips Screws on the Head cover
2. Remove Head Cover and put it aside
3. Remove Lamp carefully from its holder and disconnect lamp socket
4. Mount new lamp and close case using step 1-3 in reverse order

**Attention: Make sure that the lamp and the connectors fit in the right position and place !!!**

## **6 Maintenance the MIGHTY SCAN**

The cleaning of the inner optical System, color filters and color correction filter should be done by qualified person only! Contact your local **GLP** Dealer for details.

Use no strong detergents, acid etc. for cleaning the case.

### **6.1 Optical System**

Clean the **Mighty-Scan** optical system and the mirror with a moistened cloth and a little cleaner.

Remove the Lens holder to clean the lens

**ATTENTION: Let everything dry carefully before connect AC Power !!!**

### **6.2 Cleaning the Fans**

It is necessary to clean the fan openings, air channels and fan gratings on a regular base (depending on the local environment).

**ATTENTION: If using the Mighty-Scan basis on the floor requires a continuously flow of air into the base fan opening !!!**

## **7 Technical Data /Overview**

- ◆ Supply data 230/120 Volt 5x20 3.15AT/6.3AT
- ◆ Lamp: 24V 250W ELC GX 5,3
- ◆ DMX 512 Standard
- ◆ Weight 9.5 kg
- ◆ Dimensions: 365 x 160 x 190 mm
- ◆ 21 Gobos
- ◆ 20 dichroitic colors
- ◆ High speed Shutter
- ◆ Stand alone function
- ◆ Built in microphone



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